

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	takashima.in. and headphone and playback and memory	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/05 17:06
L2	1021	((compact near2 disc) CD) same (frequency) same "100"	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/05 17:07
L3	182	((compact near2 disc) CD) with (frequency) with "100"	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/05 17:08
L4	15	((compact near2 disc) CD) with (frequency) with ("100" near2 Hz)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/05 17:29
L5	1	("6778814").PN.	USPAT	OR	OFF	2006/08/05 17:29
L6	36	(wireless with microphone) same ((frequency power) near3 select\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/05 17:56
L7	6	tsutsui.in. and wireless same microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/05 17:56
S1	184	(381/315,316).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/11/09 09:31
S2	236	(381/323).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/11/09 09:28
S3	58	(381/315,316,323).ccls. and antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/09 09:32
S4	3	("4425481"   "5434924"   "5757932").PN.	USPAT	OR	OFF	2004/11/09 09:37
S5	9	("4947179"   "4947432"   "5144599"   "5578999"   "5721783"   "5798984"   "5824022"   "5907522"   "6411569").PN.	USPAT	OR	OFF	2004/11/09 09:42
S6	673	marquis.in.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 14:59
S7	5	marquis.in. and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:01

## EAST Search History

S8	15	"phonak".AS. and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/05 13:42
S9	43	"phonak".AS. and transmit\$4	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 13:07
S10	8	("4800636"   "5056204"   "5455994"   "5487012"   "6167138"   "6386707"   "6402782"   "6560499"   "2001/0005420"   "2002/0028417"   "2002/0092029"   "2002/0138237").PN.	USPAT	OR	OFF	2004/10/08 15:07
S11	139	"phonak".AS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:23
S12	36	marquis.in. and transmitt\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/10 15:17
S13	112	(381/79).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 14:23
S14	0	(wireless adj2 hear\$2) same ear	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 15:37
S15	5	"5970390".URPN.	USPAT	OR	OFF	2004/10/08 15:23
S16	18	("4493099"   "4712250"   "5036543"   "5293633"   "5319716"   "5408686"   "5628056"   "5768345"   "5842119"   "5905947"   "5911118"   "5946604"   "5970390"   "5991622"   "6163711"   "6423892"   "6556813"   "6608399").PN.	USPAT	OR	OFF	2005/10/21 11:18
S17	15	gerber.in. and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 15:28
S18	9705	wireless adj2 transmit\$4	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 11:52
S19	62	(wireless adj2 transmi\$7) same antenna same decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 12:52

## EAST Search History

S20	0	greminger.in. and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 15:44
S21	56	greminger.in.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/08 15:51
S22	4	((("20020090098") or ("20040069560") or ("20030094355") or ("20030091197")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/10/08 15:53
S23	10	((("20040175010") or ("20040175005") or ("20040175008") or ("20040097785") or ("20040159535") or ("20030133583") or ("20030231773") or ("20040066946") or ("20040047480") or ("20040027296")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/10/08 15:58
S24	5306	wireless adj2 transmitter	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 11:52
S25	18	(wireless adj2 transmitter) same antenna same decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 11:47
S26	63	(wireless adj2 transmi\$8) same antenna same decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 12:39
S27	7	(381/79).ccls. and decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 12:49
S28	2015	(transmi\$7) same antenna same decoder same frequency	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 12:53
S29	936	(transmitter) same antenna same decoder same frequency	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 12:53
S30	10	"5734976".URPN.	USPAT	OR	OFF	2004/10/23 13:05
S31	46	"phonak".AS. and transmis\$6	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 13:09
S32	50	"phonak".AS. and control	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 19:00
S33	10	"phonak".AS. and antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 13:12

## EAST Search History

S34	4026	("455"/\$).ccls. and transmi\$7 same decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 13:12
S35	1466	("455"/\$).ccls. and transmi\$7 same decoder same frequency	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 16:29
S37	888	wireless adj3 microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 13:13
S38	10	(wireless adj2 microphone) same decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/10 15:12
S40	546	(381/92,122).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/10/23 13:16
S41	50	(381/92,122).ccls. and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:24
S42	5	(381/92,122).ccls. and wireless and decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 18:16
S43	74	(wireless adj2 microphone) and decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 13:19
S44	3	("4053717"   "5138651"   "5664015").PN.	USPAT	OR	OFF	2004/10/23 13:20
S45	739	wireless adj2 microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 13:23
S46	154	(wireless adj2 microphone) same frequency	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 19:37
S47	135	(381/FOR.147).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/10/23 13:26
S48	24	(wireless adj2 microphone) same decod\$4	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/10/23 13:28
S49	25	(455/569.1,570).ccls. and wireless adj3 microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 10:48

## EAST Search History

S50	12	("4829565"   "5036532"   "5170499"   "5367556"   "5448620"   "5450494"   "5615256"   "5642402"   "5646589"   "5790671"   "5844983"   "5844992").PN.	USPAT	OR	OFF	2004/10/26 13:17
S51	3	(381/92,122).ccls. and antenna and decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 18:16
S52	10	(wireless adj2 microphone) same decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 18:24
S53	19	(wireless adj2 transmitter) same decoder same antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 17:27
S54	4	(wireless near3 microphone) same decoder same antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 18:26
S55	139	wireless same decoder same antenna same control	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 18:27
S56	54	(wireless adj2 transmitter) same (frequency adj2 band)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 18:35
S57	737	(wireless) same (signal adj2 generator)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 18:35
S58	59	(wireless) same (signal adj2 generator) same frequency same modulation	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 18:37
S59	87	(wireless) same (control adj2 signal) same (signal adj2 generator)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/08 18:38
S60	0	(wireless adj2 microphone) and deocder and transmitter	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 19:57
S61	56	(wireless adj2 microphone) and decoder and transmitter	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 19:46
S62	550	(381/92,122).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 19:54
S63	4	(wireless adj2 microphone) same (frequency adj2 selection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 19:49

## EAST Search History

S64	4	(wireless adj2 microphone) and encod\$3 same (frequency adj2 selection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 20:13
S65	2	("5051799"   "6560469").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/23 19:50
S66	106	(455/125).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 15:19
S67	3	(wireless) and (audio adj signal) near3 program\$4 near2 frequency	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 19:58
S68	2	(audio adj signal) near3 program\$4 near2 frequency adj2 band	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 20:26
S69	13	(wireless adj2 transmis\$4) and encod\$3 same (frequency adj2 selection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 20:14
S70	7	(wireless adj2 transmis\$4) same (frequency adj2 selection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 20:15
S71	170	wireless same (frequency adj2 selection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 20:22
S72	0	(frequency adj2 selection) near2 based near2 (audio adj2 signal)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 20:23
S73	4	(frequency adj2 selection) near2 (audio adj2 signal)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 20:25
S74	28	(audio adj signal) near3 program\$4 near2 frequency	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 20:34
S75	364	control adj2 (input or signal) same (frequency adj2 selection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 20:42
S76	65	control adj2 (input or signal) near3 (frequency adj2 selection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 20:35
S77	20	control adj2 (input or signal) same (frequency adj2 selection) same audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/23 20:42
S78	2	marquis.in. and wireless and antenna and decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/10 15:17

## EAST Search History

S79	404	("455"/\$).ccls. and transmi\$7 same decoder same frequency and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/10 15:19
S80	296	wireless same (hearing adj2 aid)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/10 15:30
S81	42	wireless same (hearing adj2 aid) same antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/12/10 15:30
S82	100	(455/93).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/05 13:42
S83	304	(455/112,113).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/05 13:54
S84	587	(455/112,113,118).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 10:19
S85	2	(455/112,113,118).ccls. and (frequency adj2 selection) same (decoder or decoding)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 11:40
S86	9	("455"/\$).ccls. and (transmitter) same (frequency adj2 selection) same (decoder or decoding)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/05 13:58
S87	19	(transmitter) same (frequency adj2 selection) same (decoder or decoding)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/05 13:59
S88	0	(frequency adj2 selection) same (decoder or decoding) same country	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/05 14:00
S89	0	(frequency adj2 selection) same (decoder or decoding) same countries	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/05 14:00
S90	9	(frequency adj2 selection) same (decoder or decoding) and countries	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/05 14:01
S91	0	(frequency adj2 selection) same countries same transmitter	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/05 14:02
S92	9	(frequency adj2 select\$3) same countries same transmitter	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/05 14:02
S93	0	("(frequencyadj2locking)samewirel esssamecountries").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 10:19

## EAST Search History

S94	0	(frequency adj2 locking) same wireless same countries	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 10:19
S95	20	(frequency adj2 locking) same wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 10:50
S96	0	(frequency adj2 locking) same decoder same antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 10:24
S97	12	("4918736").URPN.	USPAT	OR	OFF	2005/01/06 10:26
S98	1	(frequency adj2 bands) same (ERP) same wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 10:51
S99	14	(frequency adj2 bands) same (ERP)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 11:09
S10 0	1	(455/112,113,118).ccls. and (decoder) and (automatic adj2 tuning)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 11:24
S10 1	2	(455/112,113,118).ccls. and (automatic adj2 tuning)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 11:24
S10 2	36	(wireless adj2 transmitter) same (automatic adj2 tuning)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 17:17
S10 3	41	(automatic adj2 frequency adj2 lock\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 11:35
S10 4	31	decoder with (signal adj2 generator) with antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 11:35
S10 5	31	(455/112,113,118).ccls. and (decoder)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 16:28
S10 6	120	(wireless adj2 transmitter) same decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 11:55
S10 7	33	(wireless adj2 transmitter) same decoder same frequency	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 11:57
S10 8	12	(wireless adj2 transmitter) same (frequency adj2 select\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 14:24
S10 9	0	("(controladj2signal)with(freque nc yadj2band)with(carrieradj2frequen cy)").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/06 12:10



## EAST Search History

S11 0	52	(control adj2 signal) with (frequency adj2 band) with (carrier adj2 frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 14:51
S11 1	22	(signal adj2 generat\$3) with (control adj2 signal) with (frequency adj2 selection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 12:20
S11 2	1	("6671498").PN.	USPAT	OR	OFF	2005/01/06 14:07
S11 3	1	("6671498").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 14:07
S11 4	2	("5051799"   "6560469").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/06 14:07
S11 5	246	(455/464).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 14:56
S11 6	59	(455/463,464).ccls. and (carrier adj2 frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/06 14:56
S11 7	1757	("455"/\$).ccls. and transmitter same decoder	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 16:30
S11 8	47	("455"/\$).ccls. and transmitter same decoder same (signal adj2 generator)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 16:30
S11 9	6	("5970390").URPN.	USPAT	OR	OFF	2005/01/07 16:43
S12 0	18	("4493099"   "4712250"   "5036543"   "5293633"   "5319716"   "5408686"   "5628056"   "5768345"   "5842119"   "5905947"   "5911118"   "5946604"   "5970390"   "5991622"   "6163711"   "6423892"   "6556813"   "6608399").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/07 17:04
S12 1	0	(selection adj2 frequency adj2 band adj2 control\$3 adj2 audio adj2 signal)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/07 17:05
S12 2	1	(reprogram\$3 adj3 transmitter) same (local\$2 adj2 frequency adj2 band)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 17:12
S12 3	1	(reprogram\$3 adj3 transmitter) same (local\$2 adj2 frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 17:13

## EAST Search History

S12 4	8	(reprogram\$3 adj3 transmitter) same (frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 17:12
S12 5	1	(reprogram\$3 adj2 wireless adj2 transmitter)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 17:13
S12 6	0	(transmitter) same (program\$4 adj2 local\$2 adj2 frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 17:14
S12 7	267	(transmitter) same (program\$4 adj2 frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 17:14
S12 8	40	(wireless near2 transmitter) same (program\$4 adj2 frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 17:18
S12 9	105	(wireless near2 hearing)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 17:19
S13 0	68	(wireless adj2 hearing)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 17:59
S13 1	1	(audio adj2 signal adj2 carrier) near2 compris\$3 adj2 encoded adj2 audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 17:59
S13 2	1	(audio adj2 carrier) same (encoded adj2 audio adj2 files)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 18:00
S13 3	47	(encoded adj2 audio adj2 files)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 18:01
S13 4	1	carrier adj2 compris\$3 with (encoded adj2 audio adj2 files)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 18:01
S13 5	1	(carrier adj2 compris\$3) with (encoded adj2 audio adj2 files)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 18:01
S13 6	2	carrier same (encoded adj2 audio adj2 files)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/01/07 18:01
S13 7	14	("4918736").URPN.	USPAT	OR	OFF	2005/10/14 16:44
S13 8	0	(wireless adj2 transmitter) same (automatic adj2 tuning) same decod\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 17:18
S13 9	17	(wireless adj2 transmitter) same (control) same frequency same decod\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 17:18

## EAST Search History

S14 0	4	("5001757"   "5119503"   "5299264"   "5581617").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/14 17:20
S14 1	0	("6337913").URPN.	USPAT	OR	OFF	2005/10/14 17:20
S14 2	3	(wireless adj2 transmitter) same ((set\$4 or select\$3) with frequency adj2 band)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 17:28
S14 4	52	(wireless adj2 transmitter) and ((set\$4 or select\$3) with frequency adj2 band) and decod\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 17:28
S14 5	104	(wireless adj2 transmitter) and ((set\$4 or select\$3) with frequency adj2 band)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 14:18
S14 6	66	(wireless adj2 transmitter) same (frequency adj2 (select\$3 or set\$4))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 14:25
S14 7	4	(wireless adj2 transmitter) same (frequency adj2 (select\$3 or set\$4)) same modulat\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 14:25
S14 8	124	(wireless adj2 transmitter) and (frequency adj2 (select\$3 or set\$4)) same modulat\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 14:43
S14 9	1	(wireless adj2 transmitter) and (frequency with band with reallocat\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 14:43
S15 0	3	(wireless adj2 transmi\$6) and (frequency with band with reallocat\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 14:44
S15 1	319	(wireless adj2 transmi\$6) and (frequency with band with (reallocat\$3 or allot\$4 or assign\$4))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 14:45
S15 2	59	(wireless adj2 transmi\$6) same (frequency with band with (reallocat\$3 or allot\$4 or assign\$4))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 14:46
S15 3	354	(wireless) same (frequency with band with (reallocat\$3 or allot\$4 or assign\$4))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 14:46
S15 4	44	(wireless) same (frequency with band with (reallocat\$3 or allot\$4 or assign\$4)) same modulat\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 14:52
S15 5	125	(wireless) same (carrier adj2 frequency) same modulat\$3 same (signal adj2 generat\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 14:52

## EAST Search History

S15 6	542	(455/569.1,570).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/12 16:27
S15 7	1	("5970390").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 15:19
S15 8	8	("5970390").URPN.	USPAT	OR	OFF	2005/10/15 15:19
S15 9	10	("4712250"   "4864550"   "5093924"   "5093928"   "5319716"   "5628056"   "5768345"   "5774805"   "5826198"   "5842119").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/15 15:21
S16 0	20	("5319716").URPN.	USPAT	OR	OFF	2005/10/15 15:24
S16 1	1	("5319716").PN.	USPAT	OR	OFF	2006/08/04 15:16
S16 2	20	("5319716").URPN.	USPAT	OR	OFF	2005/10/21 11:19
S16 3	5	S162 and microphone	USPAT	OR	OFF	2005/10/21 11:24
S16 4	0	S162 and (dual-tone)	USPAT	OR	OFF	2005/10/21 11:24
S16 5	0	(wireless adj2 transmitter) same (dual-tone)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 11:29
S16 6	0	(wireless adj2 transmitter) same (dual adj 2tone)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 11:29
S16 7	454	wireless same (dual near2 tone near2 frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 11:37
S16 8	454	wireless same (dual adj2 tone adj3 frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 13:02
S16 9	25	wireless same (dual adj2 tone adj3 frequency) same encod\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 11:34
S17 0	0	wireless same ("100" with "20" with HZ) same audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 11:35
S17 1	4	wireless same ("100" with "20" with HZ)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 11:47

## EAST Search History

S17 2	206	wireless and ("100" with "20" with HZ)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 11:36
S17 3	17	wireless and ("100" with "20" with HZ) same audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 11:36
S17 4	1121	wireless same (DTMF)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 11:38
S17 5	0	wireless same (DTMF) same ("100" with "20" with HZ)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 11:38
S17 6	97	wireless same (DTMF) same modulats3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 11:44
S17 7	9	wireless same (DTMF with encod\$3 with audio)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 12:57
S17 8	1	(encod\$3) with audio with ("100" with "20" with HZ)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:43
S17 9	147	(DTMF with encod\$3 with audio)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:35
S18 0	52	(DTMF with encod\$3 with audio) and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 12:51
S18 1	5	(DTMF with encod\$3 with audio) and wireless and vehicle	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 12:51
S18 2	2	(wireless adj2 adapt\$2) same (DTMF)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 13:25
S18 3	2	(wireless adj2 adapt\$2) and (DTMF) same FM	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 13:58
S18 4	11	(wireless adj2 adapt\$2) same (microphone with input)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 13:59
S18 5	42	(wireless adj2 adapt\$2) same (microphone)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:00
S18 6	353	(wireless adj2 transmitter) same (microphone)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:08

## EAST Search History

S18 7	17	("3868743"   "4262383"   "4789904"   "5027200"   "5111289"   "5264962"   "5289321"   "5467264"   "5550677"   "5574443"   "5596228"   "5642238"   "5670935"   "5677667"   "5729016"   "5760828"   "5793300").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/21 14:03
S18 8	9	("6259475").URPN.	USPAT	OR	OFF	2005/10/21 14:04
S18 9	12	(wireless adj2 transmitter) same (microphone) same vehicle	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:08
S19 0	68	(381/92,122).ccls. and wireless and microphone	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:24
S19 1	15	(DTMF with encod\$3 with audio) and vehicle	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:36
S19 2	37	audio with ("100" with Hz with "20" with KHZ)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 12:07
S19 3	636	(frequency with band with more with carrier with frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:48
S19 4	737	(frequency with band with plurality with carrier with frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:48
S19 5	249	(frequency with band with plurality with carrier with frequency) and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:48
S19 6	99	(frequency with band with plurality with carrier with frequency) and wireless and audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:50
S19 7	107	(frequency with band with multi-carrier with frequency) and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:50
S19 8	10	(multi-carrier adj3 frequency adj2 band) and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:51
S19 9	13	(multi-carrier adj2 frequency adj2 band)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/21 14:51
S20 0	648	("100" with Hz with "20" with KHZ)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 12:07

## EAST Search History

S20 1	71	("100" with Hz with "20" with kHz) and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 12:10
S20 2	59	("100" with Hz with "20" with kHz) same audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 13:32
S20 3	21	receiv\$3 with ("100" with Hz with "20" with kHz)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 12:14
S20 4	3	encod\$3 with ("100" with Hz with "20" with kHz)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 12:16
S20 5	2	CD with ("100" with Hz with "20" with kHz)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 12:16
S20 6	1	DTMF same ("100" with Hz with "20" with kHz)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 12:29
S20 7	2	DTMF and ("100" with Hz with "20" with kHz)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 12:17
S20 8	103	high with ("100" with Hz with "20" with kHz)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 12:29
S20 9	82	high with frequency with ("100" with Hz with "20" with kHz)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 12:31
S21 0	42	transmi\$8 with ("100" with Hz with "20" with kHz)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 12:34
S21 1	65	control\$4 with ("100" with Hz with "20" with kHz)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 12:34
S21 2	1121	wireless same (DTMF)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 13:07
S21 3	185	wireless same (DTMF) same audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 13:03
S21 4	6	wireless same (DTMF) same audio same vehicle	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 13:03
S21 5	51	(wireless adj2 (adapter or transmitter)) same (DTMF)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 13:07

## EAST Search History

S21 6	22	("100" with Hz with "20" with kHz) and audio and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 13:45
S21 7	25232	(signal with control\$4 with power with level)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 13:45
S21 8	27	(signal with control\$4 with power with level)same wireless same audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 13:46
S21 9	16	(signal adj3 control\$4 adj2 power adj3 level) same wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/22 13:46
S22 0	10	marquis.in. and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:01
S22 1	5	S220 and (phone telephone telephony)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:01
S22 2	12	marquis.in. and (phone telephone telephony)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:04
S22 3	73	"455"/\$.ccls. and (wireless near2 transmitter) and DTMF and audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:12
S22 4	2	"455"/\$.ccls. and (wireless near2 transmitter) same DTMF same audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:50
S22 5	69	"455"/\$.ccls. and (wireless near2 transmitter) and DTMF and audio and (frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:20
S22 6	12	"455"/\$.ccls. and (wireless near2 microphone) and DTMF and audio and (frequency)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:21
S22 7	0	"phonak".AS. and (DTMF) and frequency and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:23
S22 8	0	"phonak".AS. and (DTMF) and frequency	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:23
S22 9	13	"phonak".AS. and (phone telephone telephony) and frequency and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:24
S23 0	9	("3979679"   "4207590"   "4332032"   "4761829"   "4873527"   "5020147"   "5402494"   "5498885"   "5519762").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/11 14:30



## EAST Search History

S23 1	1054	(381/312).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/11 14:30
S23 2	218	(381/320).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/11 14:30
S23 3	4	("4548082"   "5189704"   "5321758"   "5861779").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/11 14:33
S23 4	105	(wireless near2 transmitter) same (frequency near3 select\$4)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:50
S23 5	2	(wireless near2 transmitter) same (frequency near3 select\$4) and DTMF	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:51
S23 6	2	((wireless near2 transmitter) same (frequency near3 select\$4)) and DTMF	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:51
S23 7	46	((wireless near2 transmitter) same (frequency near3 select\$4)) and audio	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:58
S23 8	0	((wireless near2 transmitter) same (frequency near3 select\$4)) and (hearing near3 aid)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 14:59
S23 9	14	((wireless near2 transmitter) and (frequency near3 select\$4)) and (hearing near3 aid)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 15:01
S24 0	40	((wireless with transmitter) and (frequency near3 select\$4)) and (hearing near3 aid)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 18:53
S24 1	10	((("4193120") or ("4774515") or ("4847763") or ("6115478") or ("6226533") or ("6366791") or ("6423892") or ("6466801") or ("4049930") or ("6320969")).PN.	USPAT	OR	OFF	2006/07/11 18:33
S24 2	2	dress.in. and (hearing near2 aid) and frequency	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 19:06
S24 3	23	"phonak".AS. and (control near2 signal)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 19:04
S24 4	20	"phonak".AS. and (frequency near3 select\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 19:04

## EAST Search History

S24 5	150	(hearing near2 aid) and (frequency near3 select\$3) and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 19:07
S24 6	67	((hearing near2 aid) same wireless) and (frequency near3 select\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/11 19:07
S24 7	5	marquis.in. and wireless and power and frequency and control	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:09
S24 8	192	((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency)) and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 15:22
S24 9	161	((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency)) and wireless and antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:13
S25 0	18	((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency with select\$3)) and wireless and antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:14
S25 1	7	control\$4 same (((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency with select\$3))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:15
S25 2	8	(control\$4 near2 signal) same (((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:19
S25 3	206	(control\$4 near2 signal) and (((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:19
S25 4	180	(control\$4 near2 signal) and (((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3)) and antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:26
S25 5	138	((control\$4 near2 signal) same (decod\$3 demodulat\$3 process\$3)) and (((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:35
S25 6	12	(transmitter) same (((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency with select\$3))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:37
S25 7	33	((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency with select\$3))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:45

## EAST Search History

S25 8	1961	((control\$4 near2 signal) same ((power) ERP) same (frequency with select\$3))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:42
S25 9	13	((control\$4 near2 signal) same ((power) ERP) same (frequency with select\$3)) and wireless and country	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:42
S26 0	1	((effective\$2 near3 radiat\$3 near2 power) ERP) same (frequency with select\$3)) and DTMF	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 11:45
S26 1	29	((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3)) and DTMF	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 14:12
S26 2	80	microphone and (((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 14:12
S26 3	8	microphone and (((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency with select\$3)) and hearing	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 14:14
S26 4	23	microphone and ((effective\$2 near3 radiat\$3 near2 power) ERP) and (frequency) and hearing	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 14:15
S26 5	22	microphone and (ERP) and (frequency) and hearing	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 14:15
S26 6	4261	microphone and (power) and (frequency) and hearing	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 14:15
S26 7	888	microphone and (power) and (frequency near3 select\$4) and hearing	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 14:55
S26 8	12	comtek.AS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 14:58
S26 9	611	wireless with microphone with transmitter	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 14:58
S27 0	336	(wireless with microphone with transmitter) and frequency and power	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/05 17:31
S27 1	115	(wireless with microphone with transmitter) and frequency and power and (hearing listening)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 15:08

## EAST Search History

S27 2	33	(assist\$3 near2 listening near3 (system device apparatus)) and frequency and power	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 15:13
S27 3	35	(assist\$3 near2 listening) and frequency and power and antenna	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 15:14
S27 4	0	JP-404238427-\$.did.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 15:23
S27 5	1	JP-04238427-\$.did.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 15:52
S27 6	0	phonak.ap.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 15:54
S27 7	0	phonak.app.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 15:54
S27 8	312	phonak	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 15:54
S27 9	54	phonak and wireless	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 15:54
S28 0	213	(455/112,113,118,569.1,114.1,123,125,127.1).ccls. and (effect\$4 neare radiat\$4 near2 power) and frequency and microphone and power	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/07/12 16:30
S28 1	1691	(455/69).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 11:45
S28 2	2335	(455/522).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 11:39
S28 3	3095	(455/69,522).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 11:45
S28 4	736	S283 and (microphone internet (audio near2 player))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 11:45

## EAST Search History

S28 5	726	S283 and (microphone internet (audio near2 player)) and (power frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 11:46
S28 6	281	S283 and ((decod\$3 demodulat\$3 process\$3) same (microphone internet (audio near2 player))) and (power frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/04 19:35
S28 7	2	("6285886"   "6377813").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/13 12:18
S28 8	367	S283 and (microphone internet (audio near2 player)) and ((power frequency) with select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 12:21
S28 9	25	S283 and (antenna same transmitter same (decod\$3 demodulat\$3)) same ((power frequency) with select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 12:23
S29 0	1	S283 and (transmitter with (decod\$3 demodulat\$3) with (signal near2 generat\$3)) same ((power frequency) with select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 12:25
S29 1	6	S283 and transmitter same (decod\$3 demodulat\$3) same (signal near2 generat\$3) same ((power frequency) with select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 12:25
S29 2	6	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and transmitter same (decod\$3 demodulat\$3) same (signal near2 generat\$3) same ((power frequency) with select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 12:26
S29 3	35	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (decod\$3 demodulat\$3) same (signal near2 generat\$3) same ((power frequency) with select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 15:06
S29 4	62	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (signal near2 generat\$3) same (control near2 signal) same ((power frequency) with select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 12:34
S29 5	118	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (power near2 select\$3) and (frequency near2 select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 12:35

## EAST Search History

S29 6	389	(455/3.06).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 13:23
S29 7	273	S296 and (microphone (audio near2 player) internet)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 13:43
S29 8	79	(381/14).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 13:43
S29 9	0	("wireless same (hearing adj2 (aid device apparatus))").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 14:23
S30 0	508	wireless same (hearing adj2 (aid device apparatus))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 14:24
S30 1	0	wireless same (hearing adj2 (aid device apparatus)) and (control with transmitter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 14:24
S30 2	67	wireless same (hearing adj2 (aid device apparatus)) and (control with transmitter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 14:25
S30 3	86	wireless same (hearing adj2 (aid device apparatus)) and (control\$4 with transmitter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 14:25
S30 4	22	wireless same (hearing adj2 (aid device apparatus)) and (control\$4 with transmitter) and ((power frequency) near4 select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/13 15:06
S30 5	41	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (transmitter) same (signal near2 generator) same (control near2 signal)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 13:39
S30 6	1109	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and control\$4 with (ERP power (effective near2 radiat\$3 near2 power)) with frequency	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 15:54

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S30 7	795	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (control\$4 with (ERP power (effecitve near2 radiat\$3 near2 power)) with frequency) and transmitter	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 13:43
S30 8	670	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (control\$4 with (ERP power (effecitve near2 radiat\$3 near2 power)) with frequency) and transmitter and (microphone ((audio CD MP3) near2 player) (internet ner2 connect\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 13:46
S30 9	103	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (control\$4 with (ERP power (effecitve near2 radiat\$3 near2 power)) with frequency) same transmitter same (microphone ((audio CD MP3) near2 player) (internet ner2 connect\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 13:48
S31 1	264	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (control\$4 with (ERP power (effecitve near2 radiat\$3 near2 power)) with frequency) same (microphone ((audio CD MP3) near2 player) (internet ner2 connect\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 13:48
S31 2	36	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (control\$4 with (ERP power (effecitve near2 radiat\$3 near2 power)) with frequency) same (microphone ((audio CD MP3) near2 player) (internet near2 connect\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 13:54
S31 3	37	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (control\$4 with (ERP (transmission near2 power) (effecitve near2 radiat\$3 near2 power)) with frequency) and (microphone ((audio CD MP3) near2 player) (internet near2 connect\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 14:53

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S31 4	278	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (control\$4 with (ERP (transmission near2 power) (effectitve near2 radiat\$3 near2 power)) with frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 14:54
S31 5	147	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) same (microphone ((audio CD MP3) near2 player) (internet near2 connection))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 15:20
S31 6	53	"455"/\$.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) same (microphone ((audio CD MP3) near2 player) (internet near2 connection)) and (wireless near2 transmitter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 15:34
S31 7	239	"455"/\$.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) and (microphone ((audio CD MP3) near2 player) (internet near2 connection)) and (wireless near2 transmitter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 15:44
S31 8	43	"455"/\$.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) and ((microphone ((audio CD MP3) near2 player) (internet near2 connection)) same (decod\$3 demodulat\$3)) and (wireless near2 transmitter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 15:47
S31 9	122	(control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) and ((microphone ((audio CD MP3) near2 player) (internet near2 connection)) same (decod\$3 demodulat\$3)) and (wireless near2 transmitter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 16:07



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S32 0	166	"455"/\$.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) and ((microphone ((audio CD MP3) near2 player) (internet near2 connection)) and (decod\$3 demodulat\$3)) and (wireless near2 transmitter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 15:53
S32 1	724	"455"/\$.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) and (wireless near2 transmitter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 15:53
S32 2	121	455/69,522,112,113,118,569.1, 114.1,123,125,127.1.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency))) and (wireless near2 transmitter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 15:55
S32 3	176	"455"/\$.ccls. and (control\$4 with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency near2 select\$3))) and (wireless near2 transmitter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 16:06
S32 4	177	"455"/\$.ccls. and ((control\$4 choos\$3) with (ERP (transmission near2 power) (effective near2 radiat\$3 near2 power)(frequency near2 select\$3))) and (wireless near2 transmitter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/26 16:06
S32 5	390	(455/68).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/01 17:14
S32 6	2363	(455/522).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/01 17:15
S32 7	96	(455/63.3).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/01 17:15
S32 8	279	(455/71).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/01 17:15

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S329	6	S325 and (frequency near2 selection)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/01 17:16
S330	176	S325 and (control near2 signal)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/01 17:17
S331	104	S325 and (control near2 signal) same (frequency power)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/01 17:33
S332	17	S325 and (control near2 signal) same (transmission near2 power)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/01 17:33
S333	35	(encoded near3 audio near2 signal) with control\$4 with (frequency (transmission near2 power))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/03 19:00
S334	3	(encoded near3 audio near2 signal) near3 (frequency near2 select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/03 19:18
S335	1	((encoded near3 audio near2 signal) near3 control\$4 near3 decoder) same (wireless antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/03 19:05
S336	2	((encoded near3 audio near2 signal) near3 control\$4 near3 decoder) and (wireless antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/03 19:07
S337	99	((audio near2 signal) near3 (frequency near2 select\$3)) and (wireless antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/03 19:15
S338	10	((audio near2 signal) near4 control\$4 near3 (frequency near2 select\$3)) and (wireless antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/03 19:15
S339	16	(encoded near3 audio near2 signal) with (frequency near2 select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/03 19:19
S340	0	(encoded near3 audio near2 signal) with (transmission near2 power)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/03 19:20

## EAST Search History

S34 1	25	(audio near2 signal) with control\$4 with (transmission near2 power)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/03 19:20
S34 2	2	(wireless near3 adapt\$2) same (frequency near3 selection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 15:21
S34 3	325	(wireless near3 (adapt\$2 transmitter)) and (frequency near3 selection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 09:26
S34 4	1	(wireless near3 (adapt\$2 transmitter)) and ((frequency near3 selection) with country)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 09:26
S34 5	1	wireless and ((frequency near3 selection) with country)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 09:27
S34 6	5	((frequency near3 selection) with country)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 09:29
S34 7	23	((frequency with selection) with country)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 09:31
S34 8	47	(ERP (transmission near2 power)) with country	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 09:32
S34 9	1717	(ERP (transmission near2 power)) near3 select\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 09:33
S35 0	429	(ERP (transmission near2 power)) near3 select\$3 and (wireless)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 11:15
S35 1	0	("6094563").URPN.	USPAT	OR	OFF	2006/08/04 09:54
S35 2	0	("6094563").URPN.	USPAT	OR	OFF	2006/08/04 09:54
S35 3	0	("6094563").URPN.	USPAT	OR	OFF	2006/08/04 09:54
S35 4	5	("4958359"   "5003619"   "5168516"   "5487185"   "5524287").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/04 09:54
S35 5	0	("6094563").URPN.	USPAT	OR	OFF	2006/08/04 09:56
S35 6	2	("6285886"   "6377813").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/04 10:08

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S35 7	2	(ERP (transmission near2 power)) near3 select\$3 and (wireless) and (micropone ((CD audio MP3) near2 player))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 11:21
S35 8	2	(ERP (transmission near2 power)) near3 select\$3 and (micropone ((CD audio MP3) near2 player))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 11:21
S35 9	963	(frequency near3 select\$3) and (micropone ((CD audio MP3) near2 player))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 11:24
S36 0	58	(frequency near3 select\$3) same (micropone ((CD audio MP3) near2 player))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 11:22
S36 1	483	(frequency near3 select\$3) and (micropone ((CD audio MP3) near2 player)) and (wireless antenna)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 11:24
S36 2	170	((frequency near3 select\$3) same (wireless antenna)) and (micropone ((CD audio MP3) near2 player))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 11:25
S36 3	1	("5319716").PN.	USPAT	OR	OFF	2006/08/04 15:16
S36 4	0	S363 and jack	USPAT	OR	OFF	2006/08/04 15:16
S36 5	5	(wireless near3 adapt\$2) same (frequency with selection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 15:23
S36 6	35	(wireless near3 adapt\$2) same (frequency with select\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 15:21
S36 7	17	(wireless with adapt\$2) same (frequency with selection)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/08/04 15:23
S36 8	500	shimabara	USPAT; EPO; JPO	OR	OFF	2006/08/04 19:22
S36 9	2	((("4052673") or ("5732334")).PN.	USPAT	OR	OFF	2006/08/04 19:33
S37 0	2	((("5818328") or ("20010034214")).PN.	US-PGPUB; USPAT	OR	OFF	2006/08/04 19:34
S37 1	3134	(455/69,522).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/04 19:35
S37 2	323	S371 and (decod\$3 demodulat\$3 process\$3) same ((frequency power) near3 select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/04 19:36

## EAST Search History

S37 3	10	("4972439").URPN.	USPAT	OR	OFF	2006/08/04 19:38
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